

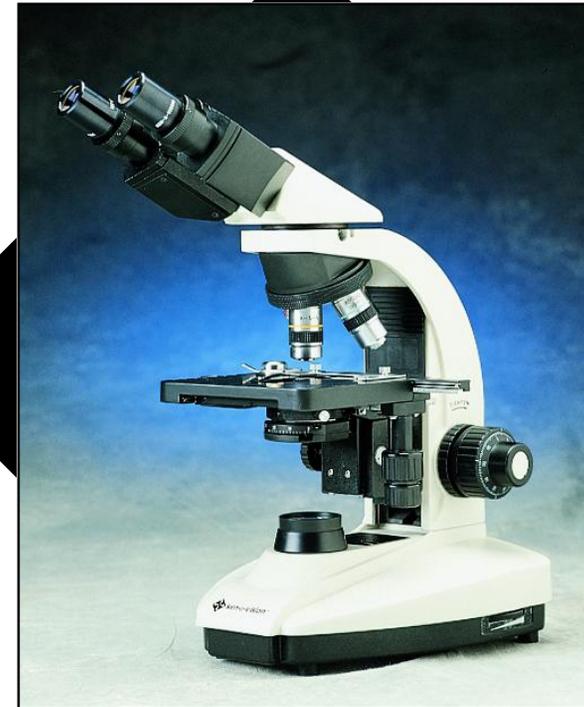
### **Cleaning the Microscope (continued)**

All optical and mechanical equipment requires periodic servicing to keep it performing properly and compensate for normal wear. Anticipating this need by establishing a schedule of regular preventive maintenance will help to assure long life and sustain optimum performance by your instrument.

Such a program of planned preventive maintenance, involving a thorough cleaning, checking and adjustment of mechanisms is recommended. Qualified personnel with the proper training should perform this work.

Ken-A-Vision has quality technicians on staff to repair or service your microscopes. Contact us at 1.816.353.4787 for more details.

WARRANTY: TEN YEAR WARRANTY AGAINST DEFECTIVE PARTS AND WORKMANSHIP.



# Research Scope

Instruction Manual

T-2701

## **RESEARCH MICROSCOPE**

### **APPLICATION**

The T-2701 research microscope is designed for clinical experiments and routine medical examinations, as well as for teaching and research purposes in biology, pharmaceutical, and bacteriology observation in medical and hygienic establishments, chemical laboratories, research institutes and colleges, etc.

This product, with a modern design and good-looking appearance, adopts many advanced structures and technologies so users can operate the instrument conveniently and safely.

### **SPECIFICATIONS**

- 10x Widefield Eyepieces w/ pointer
- 30° Inclined Rotating Head
- 4x, 10x, 40xR, 100xR DIN Achromat Objective Lens
- Coarse and Fine Coaxial Focal Adjustment
- Seidentopf Binocular Head
- Rack & Pinon Abbe NA 1.25 Condenser
- Low Position Coaxial Mechanical Stage
- 20 watt Halogen Lamp

### **OPERATION**

#### **Lamp Illumination**

Adjust the brightness control switch to achieve the desired brightness. The degree of light intensity depends on individual conditions such as specimen contrast, objective magnification, individual eyesight, etc. Too little or too much light is not recommended. Usually do not turn the light to the full brightness. This can shorten the life of the bulb.

To center the lamp, loosen the adjustment screw on the bottom of the pull down door, center the image of filament in the view field, then tighten the adjustment screw so as to observe at the optimum illumination.

#### **Focus**

Place a specimen slide on the center of stage. Using the 4x or 10X objective and 10X eyepiece, raise the stage as high as possible.

Slowly rotate the coarse focus knob to lower the specimen while looking through the 10X eyepieces. Use the fine focus knob to obtain a sharp image when changing to other objectives, the T-2701 objective lens are parfocal and will not touch the specimen slide.

The tightness of the coarse focus knob has been adjusted when the microscope leaves factory. If it is too loose (the stage falls automatically), please adjust the tension using the coarse adjustment tension knob by turning counter-clockwise until it is suitable.

#### **Condenser**

Adjust the center and height of the condenser. It has been adjusted at a suitable position when the microscope leaves factory; the user may not need any adjustment. It can be removed if you unscrew the clamp screw.

The surface of the condenser should be 0.2mm lower than the stage surface when the condenser raises to its full limit. The condenser can be moved up and down by rotating the focus knob of condenser. When using the high power objectives, the condenser should be risen. When using the low power objectives, the condenser should be lowered.

Place the blue filter into the holder, then insert into the iris diaphragm. To remove, reverse process.

#### **BULB REPLACEMENT**

Before replacing the lamp, turn OFF the power switch and unplug from electrical source. Pull lamp door down and remove lamp by pulling straight out of socket.

When replacing the lamp, do not touch the glass of the bulb with bare hands. Wear gloves or keep the protective cover on the bulb during installation. Wipe off any fingerprints using clean cloth.

#### **CARE AND MAINTENANCE**

The T-2701 is a precision instrument. Routine or protective maintenance is recommended. Never leave the microscope with any of the objectives or eyepieces removed. Always protect the microscope with the dust cover when not in use.

#### **Cleaning the Microscope**

Dust is best removed with a soft brush or soft cloth. More persistent dirt, such as fingerprints, grease and oil, may be removed with soft cotton or lens tissue, lightly moistened with lens cleaner.

To clean immersion oil off the oil-immersion type objective, use lens tissue, soft cotton or gauze lightly moistened with lens cleaner.

When the microscope is not in use, cover it up with dust cover, and store in a dry place not subject to mold.